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UNITED STATES DEPARTMENT OF AGRICULTURE

SERVICE AND REGULATORY ANNOUNCEMENTS

BUREAU OF ANIMAL INDUSTRY

MARCH 1940

[This publication is issued monthly for the dissemination of information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry. Free distribution is limited to persons in the service of the Bureau, establishments at which the Federal meat inspection is conducted, public officers whose duties make it desirable for them to have such information, and journals especially concerned. Others desiring copies may obtain them from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 5 cents each, or 25 cents a year (foreign, 60 cents). A supply will be sent to each official in charge of a station or branch of the Bureau service, who should promptly distribute copies to members of his force. A file should be kept at each station for reference.]

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CHANGES IN DIRECTORY

Meat Inspection Withdrawn

769. Guilfoil Packing Co., 20-22 North Second Street, Kansas City, Kans.  
932. Walter E. Watson, 115 Vine Street, Philadelphia, Pa.

Change of Name of Official Establishment

607. Almeida & Cabral, Inc., 156 Fifth Street, Cambridge, Mass., instead of Almeida & Cabral.

Change of Official in Charge

- Dr. A. R. Zumwalt succeeds Dr. L. C. Butterfield (retired) as inspector in charge at San Diego, Calif.  
Dr. Lewis Bilikam succeeds Dr. A. R. Zumwalt as inspector in charge at Phoenix, Ariz.  
Dr. A. H. Julien succeeds Dr. Lewis Bilikam as inspector in charge at Honolulu, Hawaii.

Change of Address of Official in Charge

- Dr. F. C. Driver, 337 United States Post Office and Courthouse, Bismarck, N. Dak., instead of 218 Post Office Building.

## CHANGES IN STATE LIVESTOCK SANITARY OFFICIALS

Dr. J. A. Jelen has succeeded Dr. J. S. Anderson as chief of the Nebraska Bureau of Animal Industry, Lincoln, Nebr., effective March 9, 1940.

ANIMALS SLAUGHTERED UNDER FEDERAL MEAT INSPECTION  
FEBRUARY 1940<sup>1</sup>

Station	Cattle	Calves	Sheep and lambs	Goats	Swine
Chicago <sup>2</sup> .....	106, 076	22, 087	196, 421	-----	495, 937
Denver.....	7, 900	1, 587	26, 264	-----	30, 899
Kansas City.....	41, 348	15, 548	74, 881	-----	146, 495
New York <sup>3</sup> .....	33, 630	47, 757	238, 793	-----	204, 188
Omaha.....	59, 682	4, 809	92, 164	-----	191, 698
St. Louis <sup>4</sup> .....	40, 051	21, 866	29, 776	-----	255, 039
Sioux City.....	25, 509	1, 086	46, 786	-----	160, 764
South St. Paul <sup>5</sup> .....	50, 681	42, 004	50, 990	-----	270, 194
All other stations.....	350, 241	221, 281	556, 466	114	2, 522, 028
Total:					
February 1940.....	715, 118	378, 025	1, 312, 541	114	4, 277, 212
February 1939.....	652, 567	384, 789	1, 360, 964	83	2, 890, 428
8 months ended—					
February 1940.....	6, 531, 615	3, 365, 624	11, 844, 118	2, 647	31, 306, 156
February 1939.....	6, 498, 111	3, 490, 372	12, 013, 278	3, 576	25, 895, 453

<sup>1</sup> Horses slaughtered:

February 1940..... 2, 084

February 1939..... 2, 121

8 months ended—

February 1940..... 21, 481

February 1939..... 22, 601

<sup>2</sup> Includes Elburn, Ill.

<sup>3</sup> Includes Jersey City and Newark, N. J.

<sup>4</sup> Includes National Stock Yards and East St. Louis, Ill.

<sup>5</sup> Includes Newport and St. Paul, Minn.

MEAT AND MEAT FOOD PRODUCTS PREPARED AND PROCESSED  
UNDER FEDERAL MEAT INSPECTION, FEBRUARY 1940

Product	Quantity	Product	Quantity
Meat placed in cure:	<i>Pounds</i>	Canned meat and meat food products:	<i>Pounds</i>
Beef.....	8, 098, 268	Beef.....	6, 806, 069
Pork.....	221, 610, 285	Pork.....	31, 356, 612
Smoked and/or dried:		Sausage.....	3, 293, 181
Beef.....	3, 706, 673	Soup.....	22, 292, 235
Pork.....	123, 185, 025	All other.....	11, 153, 528
Sausage:		Bacon, sliced.....	21, 755, 898
Fresh, finished.....	12, 516, 790	Lard:	
Smoked and/or cooked.....	39, 493, 793	Rendered.....	140, 978, 974
To be dried or semidried.....	7, 712, 227	Refined.....	77, 530, 641
Loaf, headcheese, chili con carne,		Oleo stock.....	6, 724, 452
jellied products, etc.....	8, 282, 639	Edible tallow.....	4, 445, 415
Cooked meat:		Compound containing animal fat.....	11, 337, 141
Beef.....	542, 755	Oleomargarine containing animal fat.....	3, 573, 094
Pork.....	14, 281, 253	Miscellaneous.....	1, 224, 465
		Total.....	<sup>1</sup> 781, 901, 416

<sup>1</sup> This figure represents "inspection pounds" as some of the products may have been inspected and recorded more than once due to having been subjected to more than one distinct processing treatment, such as curing first and then canning.

# MEAT AND MEAT FOOD PRODUCTS CERTIFIED FOR EXPORT, FEBRUARY 1940

Product	Quantity during—		Product	Quantity during—	
	February 1940	February 1939		February 1940	February 1939
<b>Beef and veal:</b>	<i>Pounds</i>	<i>Pounds</i>	<b>Pork—Continued.</b>	<i>Pounds</i>	<i>Pounds</i>
Fresh.....	86, 709	171, 225	Smoked.....	203, 099	212, 484
Cured.....	818, 529	276, 639	Canned.....	1, 632, 035	914, 647
Smoked.....	1, 007	414	Edible organs—		
Canned.....	494, 654	266, 970	Fresh.....	2, 178, 915	410, 236
Edible organs:—			Cured.....	30, 240	274, 564
Fresh.....	846, 551	321, 363	Miscellaneous.....	5, 258	22, 146
Cured.....	141	20, 257	Sausage.....	330, 119	233, 035
Miscellaneous.....		50, 445	Lard.....	26, 853, 683	23, 369, 334
<b>Mutton and lamb:</b>			Compound (lard substi-		
Fresh.....	1, 170, 150	45, 863	tute).....	6, 147	12, 981
Canned.....	49, 460	25, 209	Oleo stock.....	208, 524	195, 083
Edible organs—			Oleo oil.....	123, 435	468, 696
Fresh.....	268, 632	51, 242	Oleostearin.....	24, 730	6, 391
Cured.....	175		Oleomargarine.....	8, 040	2, 926
Miscellaneous.....		46			
<b>Pork:</b>			Total.....	53, 294, 704	34, 013, 739
Fresh.....	14, 820, 636	1, 026, 144			
Cured.....	3, 133, 835	5, 635, 835	Horse meat.....	288, 222	175, 500



# FOOD ANIMALS AND MEAT AND MEAT PRODUCTS INSPECTED WHEN OFFERED FOR IMPORTATION, FEBRUARY 1940

## Food animals passed for entry

Country of origin	Cattle	Swine	Sheep	Goats
Mexico.....	36, 170			
Canada.....	9, 625	3	11	3
Virgin Islands (to Puerto Rico).....	202	19		
Total:				
February 1940.....	45, 997	22	11	3
February 1939.....	89, 572	14	217	2
8 months ended—				
February 1940.....	379, 659	147	2, 252	143
February 1939.....	388, 350	218	2, 612	34

Refused entry: 716 cattle. Inspected for movement in bond for reentry into Mexico: 1,309 cattle. (These figures are not included in the table above.)

## Meat and meat food products passed for entry

Country of origin	Chilled and frozen fresh meat			Cured meat	Canned meat	Sausage (not canned)	Other products	Total
	Beef and veal	Mutton and lamb	Pork					
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
Argentina.....					2, 966, 062	2, 024	560	2, 968, 646
Australia.....							6, 016	6, 016
Brazil.....				24, 685	858, 980		6, 502	890, 167
Canada.....	21, 151		166, 895	39, 832	75	7, 329	119, 266	354, 548
Cuba.....	92, 159							92, 159
Denmark.....					109	110	3, 665	3, 884
France.....					152	115	780	1, 047
Great Britain.....					18		8, 274	8, 292
Hungary.....				992	120, 460	1, 817		123, 269
Iceland.....		430					111	541
Italy.....				313		29, 145		29, 458
Japan.....					315			315
Lithuania.....					15, 388			15, 388
Netherlands.....				17, 099	24, 133	168		41, 400
New Zealand.....	35, 575						7, 605	43, 180
Paraguay.....					323, 916		4, 956	330, 872
Rumania.....					71, 462			71, 462
Switzerland.....							1, 010	1, 010
Uruguay.....				181, 984	380, 767			562, 751
Total.....	148, 885	430	166, 895	264, 905	4, 763, 837	40, 708	158, 745	5, 544, 405

Condemned: Canned beef, 96 pounds; cured pork, 60 pounds; total, 156 pounds.

Refused entry: Canned beef, 12,913 pounds; canned sausage, 1,240 pounds; canned soup, 576 pounds; total, 14,729 pounds.



# SUMMARY OF TUBERCULOSIS-ERADICATION WORK IN COOPERATION WITH STATES, FEBRUARY 1940

State or Territory	Tuberculin tests during month		Total to date <sup>1</sup>			Inspector in charge	State official
	Cattle tested	Cattle re-acted	Once-tested-free herds	Accredited herds	Herds under supervision		
Alabama.....	7,788	69	270,875	420	271,295	R. E. Jackson.....	I. S. McAdory, Auburn.
Arizona.....	18,406	16	12,236	8	12,593	F. L. Schneider.....	T. B. Jones, Phoenix.
Arkansas.....	869	0	231,563	5	231,568	A. W. Rice.....	C. D. Stubbs, Little Rock.
California.....	134,642	1,689	74,090	22	74,669	W. E. Howe.....	C. U. Duckworth, Sacramento.
Colorado.....	3,048	28	60,611	31	60,846	A. H. Francis.....	R. M. Gow, Denver.
Connecticut.....	14,514	61	410	17,162	18,614	R. L. Smith.....	R. L. Harding, Hartford.
Delaware.....	2,853	1	5,369	2,656	8,140	O. L. Lockwood.....	Harry McDaniel, Jr., Dover.
D. C. ....	0	0	15	2	17	A. E. Wight.....	J. V. Knapp, Tallahassee.
Florida.....	3,183	1	40,362	67	67,656	T. H. Applewhite.....	J. M. Sutton, Atlanta.
Georgia.....	1,050	0	242,175	46	242,274	W. C. Dendinger.....	E. T. Powell, Boise.
Idaho.....	3,026	1	51,145	32	51,270	A. K. Kuttler.....	J. P. Stout, Springfield.
Illinois.....	59,536	359	232,630	657	242,856	J. J. Lintner.....	J. L. Axby, Indianapolis.
Indiana.....	19,519	88	146,067	1,363	147,750	W. A. Sullivan.....	H. A. Seidell, Des Moines.
Iowa.....	125,720	941	169,000	724	196,600	J. A. Barger.....	W. J. Miller, Topeka.
Kansas.....	10,031	42	170,338	270	171,032	Ralph Graham.....	D. E. Westmorland, Frankfort.
Kentucky.....	2,610	24	163,647	24	163,867	E. E. Coshow.....	E. P. Flower, Baton Rouge.
Louisiana.....	2,614	11	148,782	-----	148,804	W. A. McDonald.....	H. M. Tucker, Augusta.
Maine.....	6,753	8	43,392	264	43,817	A. L. Hirleman.....	Mark Welsh, Baltimore.
Maryland.....	14,583	24	26,066	14,016	44,760	O. L. Lockwood.....	Mark Galusha, Boston.
Massachusetts.....	22,785	104	1,029	21,430	22,554	E. A. Crossman.....	C. H. Clark, Lansing.
Michigan.....	37,970	102	206,738	64	207,087	C. H. Hays.....	E. E. Cotton, St. Paul.
Minnesota.....	10,073	26	197,273	488	198,226	W. J. Fretz.....	R. S. Brashler, Jackson.
Mississippi.....	4,476	0	260,164	4	260,216	H. Robbins.....	H. E. Curry, Jefferson City.
Missouri.....	2,225	8	237,707	76	239,587	W. F. Biles.....	W. J. Butler, Helena.
Montana.....	2,864	8	72,999	26	73,033	G. W. Cronen.....	J. S. Anderson, Lincoln.
Nebraska.....	12,590	68	134,887	33	135,227	J. W. Murdoch.....	Edward Records, Reno.
Nevada.....	570	0	3,417	2	3,441	R. A. Given.....	R. W. Smith, Concord.
New Hampshire.....	23,153	14	241	17,842	18,121	E. A. Crossman.....	R. A. Hendershott, Trenton.
New Jersey.....	30,061	165	1,612	15,671	17,517	J. R. Porteus.....	Sam McCue, Albuquerque.
New Mexico.....	1,928	15	22,104	17	25,450	F. L. Schneider.....	E. T. Faulder, Albany.
New York.....	93,896	1,033	5,239	138,816	145,523	H. B. Leonard.....	William Moore, Raleigh.
North Carolina.....	3,031	1	256,170	463	256,633	A. A. Husman.....	T. O. Brandenburg, Bismarck.
North Dakota.....	14,136	43	69,836	240	70,240	F. C. Driver.....	F. L. Carr, Columbus.
Ohio.....	58,088	103	248,689	448	249,414	A. J. DeFosset.....	D. H. Ricks, Oklahoma City.
Oklahoma.....	4,596	32	276,338	18	276,356	L. J. Allen.....	W. H. Lytle, Salem.
Oregon.....	9,971	53	170,782	1,921	172,743	S. B. Foster.....	C. P. Bishop, Harrisburg.
Pennsylvania.....	74,498	213	141,445	7,603	167,735	J. B. Reidy.....	G. W. Breed, Providence.
Rhode Island.....	3,281	26	2,253	1,299	4,011	E. A. Crossman.....	W. K. Lewis, Columbia.
South Carolina.....	1,294	0	56,060	65	56,126	W. K. Lewis.....	R. S. Robinson, Pierre.
South Dakota.....	36,336	104	73,239	4	73,365	C. H. Fawks.....	A. S. Topmiller, Nashville.
Tennessee.....	2,224	4	294,798	22	294,847	H. L. Fry.....	T. O. Booth, Fort Worth.
Texas.....	20,075	0	252,815	73	492,281	H. L. Darby.....	W. H. Hendricks, Salt Lake City.
Utah.....	2,903	11	87,091	128	87,439	H. H. Cohenour.....	E. H. Jones, Montpelier.
Vermont.....	34,384	236	6,027	18,888	25,095	J. J. Staab.....	H. C. Glyens, Richmond.
Virginia.....	6,576	48	198,414	609	199,291	H. S. Miller.....	M. R. Hales, Olympia.
Washington.....	29,068	58	73,403	23	76,475	J. C. Exline.....	J. B. McLaughlin, Charleston.
West Virginia.....	4,986	14	114,092	582	114,694	H. M. Newton.....	V. S. Larson, Madison.
Wisconsin.....	36,313	111	179,021	7,838	187,250	J. S. Healy.....	H. D. Port, Cheyenne.
Wyoming.....	227	1	19,151	3	19,152	F. H. Melvin.....	E. H. Willers, Honolulu.
Hawaii.....	3,244	3	1,700	-----	1,700	Lewis Billkam.....	Isidoro A. Colon, San Juan.
Puerto Rico.....	7,106	33	19,000	250	20,000	S. H. Still.....	G. C. Kendall, Christiansted.
Virgin Islands.....	-----	-----	424	-----	424	S. H. Still.....	
Total.....	1,025,673	6,000	5,772,871	272,715	6,389,681		

<sup>1</sup> All States are 100 percent modified accredited except California, which has 52 counties (89.7 percent) in the modified accredited area. Puerto Rico and the Virgin Islands are also in the modified accredited area.

SUMMARY OF BANG'S DISEASE WORK IN COOPERATION WITH STATES, FEBRUARY 1940<sup>1</sup>

State or Territory	Agglutination blood tests completed during month		Results of agglutination blood tests during month					Herds under supervision	Cattle on waiting list
	Herds	Cattle	Herds containing infection	Total cattle in herds	Reactors	Negative			
						Herds	Cattle		
Alabama.....	2,869	22,028	123	8,229	612	2,746	13,799	48,985	67,215
Arizona.....	190	3,290	8	132	15	182	3,158	2,627	2,000
Arkansas.....	1,662	22,245	135	6,187	339	1,527	16,058	176,741	10
California.....									
Colorado.....	162	2,862	19	630	32	143	2,232	1,543	4,093
Connecticut.....	40	1,266	14	654	40	26	612	354	
Delaware.....	94	2,099	20	477	28	74	1,622	5,191	2,363
Florida.....	1,010	41,251	126	19,716	459	884	21,535	15,653	
Georgia.....	2,454	12,102	94	4,030	341	2,360	8,072	79,086	102,249
Idaho.....	809	8,852	118	2,163	274	691	6,689	25,188	
Illinois.....	324	5,909	102	2,266	330	222	3,643	12,307	
Indiana.....	286	4,740	23	33	33	263	4,707	5,663	775
Iowa.....	1,006	18,127	345	7,254	1,096	661	10,873	22,389	22,484
Kansas.....	51	1,823	18	846	72	33	977	2,489	306
Kentucky.....	292	3,835	28	621	54	264	3,214	38,785	
Louisiana.....	537	12,863	68	5,684	197	469	7,179	58,318	16,974
Maine.....	141	2,692	49	1,126	100	92	1,566	2,577	459
Maryland.....	650	10,428	139	3,508	317	511	6,920	19,152	22,334
Massachusetts.....	2	135				2	135	148	
Michigan.....	1,629	17,177	196	3,738	452	1,433	13,439	19,677	9,031
Minnesota.....	1,082	21,484	382	8,307	905	700	13,177	60,281	25,824
Mississippi.....	176	5,306	24	1,963	25	152	3,343	6,863	
Missouri.....	997	12,124	120	2,190	309	877	9,934	72,839	
Montana.....	164	2,889	27	1,262	115	137	1,627	5,533	20
Nebraska.....	163	3,011	50	1,482	160	113	1,529	4,903	1,607
Nevada.....	30	3,094	4	131	180	26	2,963	1,437	
New Hampshire.....	810	13,009	124	1,404	378	686	11,605	3,486	1,196
New Jersey.....	109	6,031	18	2,800	41	91	3,231	300	
New Mexico.....	504	4,139	46	1,000	82	458	3,139	7,697	5,000
New York.....	400	13,745	174	7,465	421	226	6,250	3,799	23,119
North Carolina.....	3,619	16,456	54	1,648	85	3,565	14,808	118,244	110,000
North Dakota.....	1,641	24,880	158	3,982	301	1,483	20,898	29,880	171,798
Ohio.....	1,569	17,095	192	3,441	549	1,377	13,654	45,048	6,845
Oklahoma.....	830	15,480	201	6,365	432	629	9,115	41,707	50,000
Oregon.....	2,316	27,524	140	5,292	296	2,176	22,232	76,745	
Pennsylvania.....	4,996	48,586	368	8,148	1,043	4,628	40,438	60,590	187,907
Rhode Island.....	14	500	2	16	4	12	484	123	
South Carolina.....	379	3,109	12	413	21	367	2,696	23,443	3,000
South Dakota.....	84	2,138	26	594	66	58	1,544	1,483	800
Tennessee.....	932	11,002	92	3,334	210	840	7,663	35,892	50,000
Texas.....	61	6,705	11	2,195	39	50	4,510	929	
Utah.....	717	5,844	237	1,720	123	480	4,124	23,605	
Vermont.....	98	2,902	29	1,160	68	69	1,742	410	748
Virginia.....	266	3,890	15	788	26	251	3,092	179,363	148,071
Washington.....	1,558	19,306	118	5,018	288	1,440	14,288	73,320	
West Virginia.....	812	5,879	32	725	59	780	5,154	43,922	
Wisconsin.....	1,941	43,601	374	10,453	851	1,567	33,148	60,097	64,280
Wyoming.....	63	1,041	12	357	36	51	684	2,331	
Puerto Rico.....								3	
Total.....	40,539	534,484	4,667	150,947	11,904	35,872	383,537	1,521,161	1,100,298

<sup>1</sup> Officials in charge of Bang's disease work are the same as those listed in summary of tuberculosis-eradication work.

## BIOLOGICAL PRODUCTS PREPARED UNDER LICENSES, FEBRUARY 1940

*Anti-hog-cholera serum*

Period	Preserved	Completed	Released	Destroyed
	<i>Cc</i>	<i>Cc</i>	<i>Cc</i>	<i>Cc</i>
February 1940.....	107, 638, 859	102, 514, 323	71, 210, 500	420, 040
February 1939.....	93, 551, 529	83, 061, 639	54, 608, 385	439, 563
8 months ended—				
February 1940.....	887, 736, 106	869, 898, 162	749, 679, 210	4, 237, 191
February 1939.....	646, 155, 333	634, 732, 186	624, 303, 225	2, 649, 440

*Hog-cholera virus*

Period	Produced			Destroyed	
	Simultaneous	Hyperimmu- nizing	Inoculat- ing	Simulta- neous	Hyperim- munizing
	<i>Cc</i>	<i>Cc</i>	<i>Cc</i>	<i>Cc</i>	<i>Cc</i>
February 1940.....	2, 542, 123	22, 430, 261	71, 416	108, 335	753, 174
February 1939.....	2, 472, 253	19, 414, 667	78, 402	101, 610	674, 064
8 months ended—					
February 1940.....	35, 242, 075	174, 526, 132	529, 095	2, 270, 969	5, 730, 404
February 1939.....	37, 418, 216	131, 497, 764	466, 446	1, 190, 069	4, 390, 704

## INSPECTIONS AND TESTS IN THE PREPARATION OF BIOLOGICAL PRODUCTS UNDER LICENSES, FEBRUARY 1940

Period	Animal in- spections	Animal re- jections	Pigs in- oculated	Hogs hy- pered	Tests supervised	
					Serum	Virus
February 1940.....	297, 691	3, 209	24, 099	17, 718	367	84
February 1939.....	254, 844	3, 202	20, 164	15, 001	258	103
8 months ended—						
February 1940.....	2, 444, 212	26, 277	193, 326	138, 514	3, 405	1, 339
February 1939.....	1, 844, 188	19, 590	149, 324	103, 646	2, 582	1, 343

## LICENSES ISSUED FOR BIOLOGICAL PRODUCTS, FEBRUARY 1940

Licenses No. 3, issued April 12, 1933, April 21, 1934, August 23, 1934, February 26, 1937, March 17, 1937, June 3, 1937, and April 20, 1939, to Mulford Biological Laboratories, Sharp & Dohme, Glen Olden, Pa., were terminated February 21, 1940, without prejudice, and license reissued on the same date to Sharp & Dohme, Broad and Wallace Streets, Philadelphia, Pa., for: Anthrax bacterin; anthrax spore vaccine; antianthrax serum; antibacterial serum (bovine); antibacterial serum (canine); antibacterial serum (equine); antiencephalomyelitis serum (eastern); antiencephalomyelitis serum (western); antiencephalomyelitis serum (eastern and western); anti-hemorrhagic-septicemia serum; anti-swine-erysipelas serum; antivenin; avian tuberculin; avisepticus-gallinarum bacterin; blackleg bacterin; blackleg cultural vaccine; blackleg natural aggressin; blackleg tissue vaccine; brucella abortus vaccine; canine-distemper vaccine; encephalomyelitis vaccine (eastern); encephalomyelitis vaccine (western); hemorrhagic-septicemia aggressin; hemorrhagic-septicemia bacterin; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (canine); mixed bacterin (equine); mixed bacterin (ovine); mixed bacterin (porcine); normal serum; rabies vaccine; salmonella-abortivoequina bacterin; tetanus antitoxin; tetanus toxoid; tuberculin.

Licenses No. 4, issued March 21, 1933, March 8, 1938, April 7, 1938, May 3, 1938, and March 14, 1939, to Abbott Laboratories, North Chicago, Ill., were terminated February 21, 1940, without prejudice, and license reissued on the same date to Abbott Laboratories, Fourteenth Street and Sheridan Road, North Chicago,



Ill., for: Autogenous bacterin; brucella abortus vaccine; encephalomyelitis vaccine (eastern); encephalomyelitis vaccine (western); encephalomyelitis vaccine (eastern and western); hemorrhagic-septicemia bacterin; listerella-monocytogenes bacterin; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (canine); mixed bacterin (equine); mixed bacterin (porcine); normal serum; staphylococcus-streptococcus bacterin; streptococcus bacterin; tetanus antitoxin.

License No. 5, issued July 25, 1932, to Parke, Davis & Co., Detroit, Mich., was terminated February 17, 1940, without prejudice, and license reissued on the same date to Parke, Davis & Co., P. O. Box 119, R. P. Annex, Detroit, Mich., for: Anthrax spore vaccine; antianthrax serum; anti-bronchisepticus-bacillus serum; anti-streptococcus serum; autogenous bacterin; blackleg bacterin; blackleg cultural aggressin; blackleg natural aggressin; blackleg tissue vaccine; hemorrhagic-septicemia bacterin; mallein; mixed bacterin (equine); normal serum; rabies vaccine; staphylococcus-streptococcus bacterin; tetanus antitoxin; tuberculin.

Licenses No. 6-A, issued May 29, 1939, and February 21, 1939, to Pitman-Moore Co., division of Allied Laboratories, Inc., Indianapolis, Ind., were terminated February 20, 1940, without prejudice, and license reissued on the same date to Pitman-Moore Co., division of Allied Laboratories, Inc., 1220 Madison Avenue, Indianapolis, Ind., for: Antibacterial serum (bovine); antibacterial serum (canine); antibacterial serum (equine); antibacterial serum (feline); antibacterial serum (porcine); antiblackleg serum; anti-canine-distemper serum; anti-encephalomyelitis serum (eastern); anti-encephalomyelitis serum (western); anti-encephalomyelitis serum (eastern and western); anti-hemorrhagic-septicemia serum; anti-swine-erysipelas serum; autogenous bacterin; avian tuberculin; avisepticus-gallinarum bacterin; blackleg bacterin; blackleg natural aggressin; brucella-abortus vaccine; canine-distemper vaccine; canine-distemper virus; clostridium chauvei-septicus bacterin; encephalomyelitis vaccine (eastern); encephalomyelitis vaccine (western); encephalomyelitis vaccine (eastern and western); fowl-laryngotracheitis vaccine; fowl-pox vaccine; hemorrhagic-septicemia aggressin; hemorrhagic-septicemia bacterin; mallein; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (canine); mixed bacterin (equine); mixed bacterin (feline); mixed bacterin (ovine); mixed bacterin (porcine); normal serum; ovine-ecthyma vaccine; pasteurella avicida bacterin; rabies vaccine; salmonella abortus-equina bacterin; salmonella choleraesuis bacterin; tetanus antitoxin; tetanus toxoid; tuberculin.

Licenses No. 9, issued February 21, 1939, and May 18, 1939, to Lederle Laboratories, Inc., Pearl River, N. Y., were terminated February 21, 1940, without prejudice, and license reissued on the same date to Lederle Laboratories, Inc., 30 Rockefeller Plaza, New York, N. Y., for: Anthrax spore vaccine; antianthrax serum; antiblackleg serum; antibacterial serum (bovine); antibacterial serum (equine); antibacterial serum (canine); anti-canine-distemper serum; anti-encephalomyelitis serum (eastern); anti-encephalomyelitis serum (western); anti-encephalomyelitis serum (eastern and western); anti-hemorrhagic-septicemia serum; anti-hog-cholera serum; anti-swine-erysipelas serum; autogenous bacterin; avian tuberculin; blackleg bacterin; blackleg natural aggressin; botulinus antitoxin (types A and B); brucella abortus vaccine; canine-distemper vaccine; canine-distemper virus; clostridium chauvei-welchii bacterin (export only); encephalomyelitis vaccine (eastern); encephalomyelitis vaccine (western); encephalomyelitis vaccine (eastern and western); encephalomyelitis vaccine (export only) (South American type A); fowl-laryngotracheitis vaccine; fowl-pox vaccine; hemorrhagic-septicemia aggressin; hemorrhagic-septicemia bacterin; hog-cholera virus; mallein; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (canine); mixed bacterin (equine); mixed bacterin (feline); mixed bacterin (ovine); mixed bacterin (porcine); normal serum; pigeon-pox vaccine; rabies vaccine; salmonella abortus-equina bacterin; staphylococcus aureus toxoid; swine-erysipelas vaccine (export only); tetanus antitoxin; tetanus toxoid; tuberculin.

License No. 17, issued March 3, 1939, to Beebe Laboratories, Inc., St. Paul, Minn., was terminated February 20, 1940, without prejudice, and license reissued on the same date to Beebe Laboratories, Inc., P. O. Box 3575, St. Paul, Minn., for: Anti-swine-erysipelas serum; avian tuberculin; avisepticus-gallinarum bacterin; blackleg bacterin; blackleg cultural aggressin; blackleg tissue vaccine; brucella abortus vaccine; encephalomyelitis vaccine (western); fowl-pox vaccine; hemorrhagic-septicemia bacterin; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (canine); mixed bacterin (equine); mixed bacterin (ovine); mixed bacterin (porcine); rabies vaccine.

Licenses No. 34, issued June 11, 1936, and May 16, 1938, to Peters Serum Co., Kansas City, Mo., were terminated February 17, 1940, without prejudice, and

license reissued on the same date to Peters Serum Co., Livestock Exchange Building, Kansas City, Mo., for: Anti-hog-cholera serum; autogenous bacterin; avisepticus-gallinarum bacterin; blackleg cultural aggressin; brucella abortus vaccine; hemorrhagic-septicemia bacterin; hog-cholera virus; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (equine); mixed bacterin (ovine); mixed bacterin (porcine).

Licenses No. 41, issued October 18, 1935, January 17, 1936, and June 3, 1939, to Kinsley Laboratories, Kansas City, Mo., were terminated February 20, 1940, without prejudice, and license reissued on the same date to Kinsley Laboratories, 1103 East Forty-seventh Street, Kansas City, Mo., for: Anti-canine-distemper serum; autogenous bacterin; avisepticus-gallinarum bacterin; blackleg bacterin; brucella abortus vaccine; canine-distemper virus; encephalomyelitis vaccine (western); hemorrhagic-septicemia bacterin; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (canine); mixed bacterin (equine); mixed bacterin (feline); mixed bacterin (ovine); mixed bacterin (porcine); streptococcus bacterin.

Licenses No. 52, issued February 28, 1939, and October 26, 1939, to Cutter Laboratories, Berkeley, Calif., were terminated February 20, 1940, without prejudice, and license reissued on the same date to Cutter Laboratories, Fourth and Parker Streets, Berkeley, Calif., for: Anaerobic antitoxin; anthrax spore vaccine; antianthrax serum; antibacterial serum (bovine); antibacterial serum (canine); antibacterial serum (equine); antibacterial serum (porcine); anti-canine-distemper serum; anti-encephalomyelitis serum (eastern); anti-encephalomyelitis serum (western); anti-hemorrhagic-septicemia serum; anti-swine-erysipelas serum; autogenous bacterin; blackleg bacterin; blackleg cultural aggressin; blackleg tissue vaccine; brucella abortus vaccine; canine-distemper vaccine; canine-distemper virus; clostridium-hemolyticum bacterin; encephalomyelitis vaccine (western); fowl-laryngotracheitis vaccine; fowl-pox vaccine; gonadin serum; hemorrhagic-septicemia bacterin; hog-cholera vaccine; hog-cholera virus; mallein; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (canine); mixed bacterin (equine); mixed bacterin (feline); mixed bacterin (ovine); mixed bacterin (porcine); normal serum; ovine-ecthyma vaccine; rabies vaccine; staphylococcus bacterin; staphylococcus-streptococcus bacterin; streptococcus bacterin; tetanus antitoxin; tetanus toxoid; tuberculin.

License No. 54, issued March 12, 1936, to Kansas State College of Agriculture and Applied Science, Manhattan, Kans., was terminated February 24, 1940, without prejudice, and license reissued on the same date to Kansas State College of Agriculture and Applied Science, Manhattan, Kans. for: Blackleg bacterin; blackleg cultural aggressin.

License No. 107, issued February 21, 1939, to Jensen-Salsbery Laboratories, Inc., Kansas City, Mo., was terminated February 20, 1940, without prejudice, and license reissued on the same date to Jensen-Salsbery Laboratories, Inc., 520 West Pennway, Kansas City, Mo., for: Anthrax spore vaccine; antianthrax serum; antibacterial serum (bovine); antibacterial serum (canine); antibacterial serum (equine); antibacterial serum (feline); anti-canine-distemper serum; anti-encephalomyelitis serum (eastern); anti-encephalomyelitis serum (western); anti-encephalomyelitis serum (eastern and western); anti-hemorrhagic-septicemia serum; anti-hog-cholera serum; anti-swine-erysipelas serum; autogenous bacterin; avian tuberculin; avisepticus-gallinarum bacterin; blackleg bacterin; blackleg cultural aggressin; blackleg natural aggressin; botulinus antitoxin (type A); botulinus antitoxin (type B); botulinus antitoxin (type C); botulinus antitoxin (types A, B, and C); brucella abortus vaccine; canine-distemper vaccine; canine-distemper virus; encephalomyelitis vaccine (eastern); encephalomyelitis vaccine (western); encephalomyelitis vaccine (eastern and western); fowl-pox vaccine; hemorrhagic-septicemia aggressin; hemorrhagic-septicemia bacterin; hog-cholera virus; johnin; mallein; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (canine); mixed bacterin (equine); mixed bacterin (feline); mixed bacterin (ovine); mixed bacterin (porcine); mixed bacterin (lepine); normal serum; ovine-ecthyma vaccine; pigeon-pox vaccine; rabies vaccine; salmonella-abortioequina bacterin; staphylococcus bacterin; tetanus antitoxin; tetanus toxoid; tuberculin.

License No. 117-A, issued March 31, 1938, to O. M. Franklin Serum Co., Amarillo, Tex., was terminated February 21, 1940, without prejudice, and license reissued on the same date to O. M. Franklin Serum Co., 408 Livestock Exchange Building, Denver, Colo., for: Avisepticus-gallinarum bacterin; blackleg bacterin; brucella abortus vaccine; hemorrhagic-septicemia bacterin; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (equine); mixed bacterin (ovine); mixed bacterin (porcine); ovine-ecthyma vaccine; streptococcus bacterin.



Licenses No. 119, issued June 1, 1933, October 7, 1933, and October 30, 1937, to The Gilliland Laboratories, Inc., Marietta, Pa., were terminated February 24, 1940, without prejudice, and license reissued on the same date to The Gilliland Laboratories, Inc., Wasp and Biddle Streets, Marietta, Pa., for: Anti-hemorrhagic-septicemia serum; avian tuberculin; brucella abortus vaccine; hemorrhagic-septicemia aggressin; hemorrhagic-septicemia bacterin; normal serum; rabies vaccine; tetanus antitoxin; tetanus toxoid; tuberculin.

Licenses No. 124, issued March 20, 1933, April 5, 1934, August 23, 1934, September 17, 1936, and May 18, 1939, to Anchor Serum Co., South St. Joseph, Mo., were terminated February 24, 1940, without prejudice, and license reissued on the same date to Anchor Serum Co., Livestock Exchange Building, South St. Joseph, Mo., for: Anti-hog-cholera serum; blackleg bacterin; brucella abortus vaccine; encephalomyelitis vaccine (western); hemorrhagic-septicemia bacterin; hog-cholera virus; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (ovine); mixed bacterin (porcine).

License No. 133, issued August 30, 1937, to The National Vaccine & Serum Co., Colorado Springs, Colo., was terminated February 20, 1940, without prejudice, and license reissued on the same date to The National Vaccine & Serum Co., 501 East Las Vegas Street, Colorado Springs, Colo., for: Avisepticus-gallinarum bacterin; blackleg cultural aggressin; blackleg bacterin; brucella abortus vaccine; gallinarum-typhimurium bacterin; hemorrhagic-septicemia bacterin; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (ovine); mixed bacterin (porcine); pasteurella avicida bacterin.

Licenses No. 148, issued June 12, 1934, July 13, 1935, July 16, 1935, and June 5, 1939, to W. F. Straub & Co., Chicago, Ill., were terminated February 21, 1940, without prejudice, and license reissued on the same date to W. F. Straub & Co., 5520 Northwest Highway, Chicago, Ill., for: Autogenous bacterin; avisepticus-gallinarum bacterin; blackleg bacterin; blackleg cultural aggressin; brucella abortus vaccine; encephalomyelitis vaccine (western); hemorrhagic-septicemia bacterin; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (canine); mixed bacterin (equine); mixed bacterin (ovine); mixed bacterin (porcine); salmonella abortusvovae bacterin; staphylococcus bacterin; staphylococcus-streptococcus bacterin; streptococcus bacterin.

Licenses No. 158, issued April 7, 1933, August 7, 1934, March 1, August 16, and November 13, 1935, September 22, 1936, November 10, 1937, July 7, and September 12, 1938, and April 13 and September 29, 1939, to Globe Laboratories, Fort Worth, Tex., were terminated February 20, 1940, without prejudice, and license reissued on the same date to Globe Laboratories, P. O. Box 4145, Stock Yards Station, Fort Worth, Tex., for: Anthrax bacterin; anti-hemorrhagic-septicemia serum; anti-hog-cholera serum; anti-swine-erysipelas serum; autogenous bacterin; avisepticus-gallinarum bacterin; blackleg bacterin; blackleg cultural aggressin; blackleg natural aggressin; brucella abortus vaccine; encephalomyelitis vaccine (western); fowl-pox vaccine; hemolyticus-bacillus bacterin; hemorrhagic-septicemia aggressin; hemorrhagic-septicemia bacterin; hog-cholera virus; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (canine); mixed bacterin (equine); mixed bacterin (lepine); mixed bacterin (ovine); mixed bacterin (porcine); normal serum; ovine-ecthyma vaccine; rabies vaccine.

Licenses No. 164, issued June 6, 1933, October 11, 1934, and August 18, 1938, to J. F. DeVine Laboratories, Inc., Goshen, N. Y., were terminated February 20, 1940, without prejudice, and license reissued on the same date to J. F. DeVine Laboratories, Inc., 36 St. John Street, Goshen, N. Y., for: Autogenous bacterin; brucella abortus vaccine; hemorrhagic-septicemia bacterin; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (canine); mixed bacterin (equine); mixed bacterin (ovine); mixed bacterin (swine); salmonella abortusvovae bacterin; staphylococcus-streptococcus bacterin.

Licenses No. 165, issued July 22, 1933, August 8 and September 24, 1934, January 28, February 15, February 25, and April 15, 1935, and January 14, 1938, to American Scientific Laboratories, Inc., Polo, Ill., were terminated February 21, 1940, without prejudice, and license reissued on the same date to American Scientific Laboratories, Inc., 105 Mason Street, Polo, Ill., for: Autogenous bacterin; avisepticus-gallinarum bacterin; blackleg bacterin; blackleg cultural aggressin; brucella abortus vaccine; fowl-laryngotracheitis vaccine; fowl-pox vaccine; hemorrhagic-septicemia bacterin; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (canine); mixed bacterin (equine); mixed bacterin (ovine); mixed bacterin (porcine); pigeon-pox vaccine.

Licenses No. 179, issued June 11, 1931, and October 15, 1934, to Columbus Vaccine Co., Columbus, Ohio, were terminated February 17, 1940, without

prejudice, and license reissued on the same date to Columbus Vaccine Co., 765 East Hudson Street, Columbus, Ohio, for: Avisepticus-gallinarum bacterin; fowl-pox vaccine; mixed bacterin (avian); pigeon-pox vaccine; pullorin.

Licenses No. 180, issued July 27, 1937, and May 6, 1938, to Klusmire Biologic Laboratories, Omaha, Nebr., were terminated February 17, 1940, without prejudice, and license reissued on the same date to Klusmire Biologic Laboratories, 2514 O Street, Omaha, Nebr., for: Blackleg bacterin; blackleg cultural aggressin; brucella abortus vaccine; hemorrhagic-septicemia bacterin; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (ovine); mixed bacterin (swine).

Licenses No. 189, issued March 23, 1933, May 16, 1934, December 10, 1934, September 30, 1936, May 20, 1937, and July 26, 1939, to Norden Laboratories, Lincoln, Nebr., were terminated February 20, 1940, without prejudice, and license reissued on the same date to Norden Laboratories, 227 North Ninth Street, Lincoln, Nebr., for: Autogenous bacterin; avisepticus-gallinarum bacterin; blackleg bacterin; blackleg cultural aggressin; brucella abortus vaccine; clostridium chauvei-septicus bacterin; encephalomyelitis vaccine (western); hemorrhagic-septicemia bacterin; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (canine); mixed bacterin (equine); mixed bacterin (feline); mixed bacterin (ovine); mixed bacterin (porcine); salmonella abortusvaccina bacterin; streptococcus bacterin.

Licenses No. 190, issued April 19 and June 7, 1933, and June 5, 1939, to The National Drug Co., Philadelphia, Pa., were terminated February 21, 1940, without prejudice, and license reissued on the same date to The National Drug Co., 4657-4685 Stenton Avenue, Philadelphia, Pa., for: Encephalomyelitis vaccine (western); hemorrhagic-septicemia bacterin; mixed bacterin (bovine); mixed bacterin (canine); mixed bacterin (equine); rabies vaccine; staphylococcus aureus toxoid; tetanus antitoxin; tetanus toxoid; tuberculin.

Licenses No. 191, issued March 22, 1933, May 16, 1934, and April 14, 1939, to Ashe Lockhart, Inc., Kansas City, Mo., were terminated February 17, 1940, without prejudice, and license reissued on the same date to Ashe Lockhart, Inc., 800-804 Woodswether Road, Kansas City, Mo., for: Antianthrax serum; anti-canine-distemper serum; anti-hemorrhagic-septicemia serum; anti-swine-erysipelas serum; autogenous bacterin; avian tuberculin; avisepticus-gallinarum bacterin; blackleg bacterin; blackleg natural aggressin; bronchisepticus-streptococcus bacterin; brucella abortus vaccine; canine-distemper virus; colon-bacillus bacterin; encephalomyelitis vaccine (western); hemorrhagic-septicemia aggressin; hemorrhagic-septicemia bacterin; mallein; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (canine); mixed bacterin (equine); mixed bacterin (ovine); mixed bacterin (porcine); normal serum; rabies vaccine; salmonella abortusvaccina bacterin; staphylococcus-streptococcus bacterin; tetanus antitoxin; tetanus toxoid; tuberculin.

Licenses No. 194, issued August 17, 1931 and May 29, 1935, to New Hampshire Agricultural Experiment Station, Durham, N. H., were terminated February 3, 1940, without prejudice, and license reissued on the same date to Poultry Pathology Laboratories, New Hampshire Agricultural Experiment Station, Durham, N. H., for: Fowl-laryngotracheitis vaccine; fowl-pox vaccine.

Licenses No. 195, issued May 2, 1934 and March 19, 1936, to Dr. Salsbury's Laboratories, Charles City, Iowa, were terminated February 21, 1940, without prejudice, and license reissued on the same date to Dr. Salsbury's Laboratories, 402 Cedar Street, Charles City, Iowa, for: Autogenous bacterin; avisepticus-gallinarum bacterin; blackleg bacterin; brucella abortus vaccine; fowl-laryngotracheitis vaccine; fowl-pox vaccine; gallinarum-typhimurium bacterin; hemorrhagic-septicemia bacterin; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (porcine); mixed bacterin (lepine); pasteurilla avicida bacterin; pigeon-pox vaccine; pullorin.

License No. 202, issued September 1, 1937, to Colorado Springs Vaccine Laboratories, Inc., Colorado Springs, Colo., was terminated February 21, 1940, without prejudice, and license reissued on the same date to Colorado Springs Vaccine Laboratories, Inc., P. O. Box 302, Colorado Springs, Colo., for: Autogenous bacterin; blackleg bacterin; brucella abortus vaccine; clostridium chauvei-septicus bacterin; hemorrhagic-septicemia bacterin; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (porcine).

Licenses No. 203, issued April 20, 1933, May 15, 1933, and March 8, 1934, to Johnson Laboratories, Kansas City, Mo., were terminated February 20, 1940, without prejudice, and license reissued on the same date to Johnson Laboratories, 2030 Broadway, Kansas City, Mo., for: Anthrax bacterin; autogenous bacterin;



avisepticus-gallinarum bacterin; blackleg bacterin; blackleg cultural aggressin; brucella abortus vaccine; clostridium chauvei-septicus bacterin; hemorrhagic-septicemia bacterin; mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (canine); mixed bacterin (equine); mixed bacterin (ovine); mixed bacterin (porcine).

Licenses No. 204, issued November 11, 1936, February 23, 1937, and April 21, 1937, to The Gland-O-Lac Co., Omaha, Nebr., were terminated February 16, 1940, without prejudice, and license reissued on the same date to The Gland-O-Lac Co., Nineteenth and Leavenworth Streets, Omaha, Nebr., for: Autogenous bacterin; avisepticus-gallinarum bacterin; fowl-pox vaccine; gallinarum-typhimurium bacterin; mixed bacterin (avian); pasteurella avicida bacterin; pigeon-pox vaccine.

### PERMITS ISSUED FOR BIOLOGICAL PRODUCTS, FEBRUARY 1940

Permit No. 6 was issued February 19, 1940, to Ara Charklian, 516 Fifth Avenue, New York, N. Y., for the importation during 1940 of anthrax vaccine, manufactured by Laboratoire des Vaccins Pasteur Pour l'Etranger, 83 Rue Dutot, Paris, France, through the port of New York.

### BIOLOGICAL PRODUCTS, OTHER THAN ANTI-HOG-CHOLERA SERUM AND HOG-CHOLERA VIRUS, PRODUCED BY LICENSED ESTABLISHMENTS DURING CALENDAR YEAR ENDED DECEMBER 31, 1939

ANTITOXINS		Units	Doses
Antivenin.....			229
Botulinus antitoxin.....	97, 002, 500		
Tetanus antitoxin.....	556, 900, 500		
Total.....	653, 903, 000		229
SERUMS		Doses	Doses
Antianthrax serum.....			442, 820
Antibacterial serum (bovine).....			119, 842
Antibacterial serum (canine).....			217, 830
Antibacterial serum (equine).....			72, 821
Antibacterial serum (feline).....			52, 320
Antibacterial serum (porcine).....			19, 025
Antiblackleg serum.....			4, 530
Anti-bronchisepticus-bacillus serum.....			10, 614
Anti-canine-distemper serum.....			601, 537
Antiencephalomyelitis serum:			
Eastern.....	9, 219		
Western.....	67, 510		
Eastern and western.....	24, 990		
Total.....			101, 719
Anti-hemorrhagic-septicemia serum.....			237, 517
Anti-swine-erysipelas serum.....			1, 536, 314
Gonadin serum.....			23, 096
Normal serum:			
Bovine origin.....	699		
Equine origin.....	16, 485		
Porcine origin.....	350		
Total.....			17, 534
Total.....			3, 457, 519
AGGRESSINS		Doses	
Blackleg cultural aggressin.....		1, 433, 215	
Blackleg natural aggressin.....		2, 597, 065	
Hemorrhagic-septicemia aggressin.....		1, 226, 855	
Total.....		5, 257, 135	

## DIAGNOSTICS

	<i>Doses</i>	<i>Doses</i>
Avian tuberculin.....		162, 689
Mallein:		
Intradermic.....	21, 010	
Ophthalmic.....	80, 995	
Subcutaneous.....	2, 199	
Total.....		104, 204
Pullorin.....		1, 800
Tuberculin:		
Intradermic.....	1, 482, 250	
Ophthalmic.....	17, 165	
Subcutaneous.....	21, 303	
Total.....		1, 520, 718
Total.....		1, 789, 411

## TOXOIDS

	<i>Doses</i>
Staphylococcus aureus toxoid.....	10, 660
Tetanus toxoid.....	17, 128
Total.....	27, 788

## VACCINES AND VIRUSES

	<i>Doses</i>	<i>Doses</i>
Anthrax spore vaccine.....		3, 748, 020
Blackleg vaccine.....		1, 692, 770
Brucella abortus vaccine.....		757, 521
Canine-distemper vaccine.....		195, 887
Canine-distemper virus.....		73, 924
Encephalomyelitis vaccine:		
Eastern.....	263, 439	
Western.....	9, 194, 743	
Eastern and western.....	41, 448	
Total.....		9, 499, 630
Fowl-laryngotracheitis vaccine:		
Chick-embryo origin.....	4, 982, 300	
Chicken origin.....	3, 159, 000	
Total.....		8, 141, 300
Fowl-pox vaccine:		
Chick-embryo origin.....	4, 615, 200	
Chicken origin.....	19, 467, 700	
Total.....		24, 082, 900
Pigeon-pox vaccine:		
Chick-embryo origin.....	1, 046, 800	
Chicken origin.....	1, 751, 718	
Total.....		2, 798, 518
Hog-cholera vaccine.....		29, 370
Ovine-ecthyma vaccine.....		1, 351, 900
Rabies vaccine.....		1, 161, 446
Swine-erysipelas vaccine (export only).....		146, 440
Wart vaccine.....		119
Total.....		53, 679, 745

## BACTERINS

	Doses
Anthrax bacterin.....	245, 170
Autogenous bacterin.....	298, 293
Aviscpticus-gallinarum bacterin.....	2, 003, 225
Blackleg bacterin.....	11, 374, 795
Clostridium hemolyticum bacterin.....	149, 030
Felisepticus-bacillus bacterin.....	5, 475
Hemorrhagic-septicemia bacterin.....	8, 557, 801
Salmonella abortivoequina bacterin.....	11, 132
Staphylococcus bacterin. Canine strains.....	3, 185
Streptococcus bacterin. Equine strains.....	523
Total.....	22, 648, 629

## MIXED BACTERINS

	Doses
Mixed bacterin (avian).....	21, 181, 035
Mixed bacterin (bovine).....	8, 685, 567
Mixed bacterin (canine).....	537, 346
Mixed bacterin (equine).....	830, 601
Mixed bacterin (feline).....	96, 780
Mixed bacterin (lepine).....	14, 110
Mixed bacterin (ovine).....	1, 289, 249
Mixed bacterin (porcine).....	4, 165, 814
Total.....	36, 800, 502
Grand total:	
Doses.....	123, 660, 958
Units.....	653, 903, 000

## REQUIREMENTS REGARDING LABELING, PRODUCING, MIXING, AND TESTING BIOLOGICAL PRODUCTS

## B. A. I. ADMINISTRATIVE NOTICE 4.

ISSUED FEBRUARY 3, 1940

(Effective on and after February 15, 1940)

SEC. 112.6.<sup>1</sup> *Trade labels; permission for use.*—Trade labels represented by those bearing Bureau stamp "Approved" shall not be affixed or otherwise applied to containers of veterinary biologics after June 30, 1940, nor shall such products so labeled be marketed by any licensee after December 31, 1940. Specimen labels to which no exceptions are taken by the Bureau will be stamped hereafter "Use Permitted Until Further Notice."

SEC. 112.7. *Trade labels; directions for handling and use of product.*—Each trade label shall bear adequate directions for proper use of the product. The quantity of the contents of each immediate or true container must be shown on each label in units, grams, milligrams, or cubic centimeters. Such labels shall also give instructions to protect the product from light and keep it at a temperature of not more than 45° F. Trade labels for multiple-dose containers shall bear a warning that all the product should be used at the time the container is first opened. Trade labels and circular matter shall bear no statement, design, or device which may deceive the purchaser or which is false or misleading in any particular.

SEC. 112.8. *Trade labels names or terms.*—Names or terms on trade labels shall conform to the following list:

## ANTITOXINS

Anaerobic antitoxin  
Antivenin

Botulinus antitoxin  
Tetanus antitoxin

<sup>1</sup> The numbering of the sections of B. A. I. Administrative Notices conforms to the numbering in title 9, chapter I, of The Code of Federal Regulations.

## SERUMS

Antianthrax serum	Antiencephalomyelitis serum:
Antibacterial serum:	Eastern
Bovine	Western
Canine	Eastern and western
Equine	Anti-feline-distemper serum
Feline	Anti-hemorrhagic-septicemia serum
Porcine	Anti-hog-cholera serum
Antiblackleg serum	Antistreptococcus serum
Anti-bronchisepticus-bacillus serum	Anti-swine-erysipelas serum
Anti-canine-distemper serum	Gonadin serum
	Normal serum

## AGGRESSINS

Blackleg cultural aggrassin	Hemorrhagic-septicemia aggrassin
Blackleg natural aggrassin	

## DIAGNOSTICS

Avian tuberculin	Pullorin
Johnin	Tuberculin
Mallein	

## TOXOIDS

Staphylococcus aureus toxoid	Tetanus toxoid
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## VACCINES AND VIRUSES

Anthrax spore vaccine	Fowl-laryngotracheitis vaccine
Blackleg cultural vaccine	Fowl-pox vaccine
Blackleg tissue vaccine	Hog-cholera vaccine
Brucella abortus vaccine	Hog-cholera virus
Canine-distemper vaccine	Ovine-ecthyma vaccine
Canine-distemper virus	Pigeon-pox vaccine
Encephalomyelitis vaccine:	Rabies vaccine
Eastern	Swine-erysipelas vaccine (export only)
Western	Wart vaccine
Eastern and western	

## BACTERINS

Anthrax bacterin	Felisepticus-bacillus bacterin
Autogenous bacterin	Gallinarum-typhimurium bacterin
Avisepticus-gallinarum bacterin	Hemorrhagic-septicemia bacterin
Blackleg bacterin	Listerella monocytogenes bacterin
Bronchisepticus-bacillus bacterin	Pasteurella avicida bacterin
Bronchisepticus-streptococcus bacterin	Salmonella abortusovae bacterin
Clostridium chauvei-septicus bacterin	Staphylococcus bacterin
Clostridium chauvei-welchii bacterin	Staphylococcus-streptococcus bacterin
(export only)	Streptococcus bacterin
Clostridium hemolyticum bacterin	
Colon-bacillus bacterin	

## MIXED BACTERINS

Mixed bacterin:	Mixed bacterin:
Avian	Feline
Bovine	Lepine
Canine	Ovine
Equine	Porcine

SEC. 114.5. *Outlines of methods of production.*—Outlines of methods of producing and testing each biologic under license shall be filed with the Bureau by the licensee. These outlines shall describe fully the entire process of producing and testing each product. No batch of product that is worthless, contaminated, dangerous, or harmful may be marketed. Tests that are applicable and necessary to prevent the marketing of such a product shall be made by the licensee. These tests include sterility, safety, potency, agglutination titer, complement fixation titer, and the like. Outlines to which no exceptions are taken by the Bureau will



be stamped hereafter "Filed with the Bureau of Animal Industry (date)," in lieu of "Accepted," and copies will be returned to the licensee. Such outlines must be followed by the licensee until an amended outline has been filed with the Bureau. Exceptions may be taken by the Bureau to these filed outlines at any time.

SEC. 114.29. *Mixing the product.*—Each batch or serial of product shall be mixed thoroughly in a single container and be constantly agitated during subsequent bottling operations. Serial numbers in sequence, with any other marking that may be necessary for ready comprehension, shall be used to identify each batch with the records of preparation and labeling.

SEC. 116.3. *Records and reports of tests.*—Records of production, testing, and the like must be completed by the licensee before any part of a batch of any product may be marketed. Copies of such tests records as the inspector in charge is authorized to receive must be delivered to him before any part of a batch of product is removed from the premises.

This notice, which is based on B. A. I. Order 276, dated August 18, 1922, shall be effective on and after February 15, 1940. The exact citations are as follows:

- Section 112.6, reg. 12, sec. 2, par. 7.
- Section 112.7, reg. 12, sec. 2, pars. 1 to 4.
- Section 112.8, reg. 12, sec. 2, par. 7.
- Section 114.5, reg. 14, sec. 1.
- Section 114.29, reg. 14, sec. 1.
- Section 116.3, reg. 16, sec. 1, pars. 1 and 2.

All previous requirements are superseded to the extent that they conflict with this notice. Section 114.5 supersedes Circular Letter No. 1681, dated October 6, 1930.

J. R. MOHLER,  
Chief of Bureau.

## RESULTS OF PROSECUTIONS FOR VIOLATIONS OF LAWS

Penalties and fines have been imposed in prosecutions for violations of regulatory laws, as reported to the Bureau, as follows:

### Twenty-eight-Hour Law

Atchison, Topeka & Santa Fe Railway Co., \$100 penalty.  
Chicago & North Western Railway Co., \$100 penalty.  
St. Louis-San Francisco Railway Co., \$100 penalty.  
Southern Pacific Co. (2 cases), \$200 penalties.

## POLITICAL ACTIVITY BY DEPARTMENT EMPLOYEES

Copies of Personnel Circular No. 84, dated January 16, 1940, concerning political activity by Department employees, have been sent to all Washington offices of the Bureau and to field stations, with instructions to deliver a copy to each employee. Any employee who has not received a copy should request his immediate supervisor to furnish him with one.

## NEW PUBLICATIONS OF THE BUREAU

[The Bureau keeps no mailing list for sending publications to individual employees, but sends copies to officers in charge of stations and offices. These publications should be regarded as notification copies. So far as possible additional copies will be furnished on request.]

Circular 541. *Estimating Weights of Lambs at a Constant Age.* By Ralph W. Phillips and G. W. Brier, Animal Husbandry Division. Pp. 16, figs. 6.

Amendment 41 to Declaration 12 under B. A. I. Order 309. *Declaring Names of Counties Placed in Modified Tuberculosis-Free Accredited Areas.* Effective March 1, 1940. Pp. 2, mimeographed.

The Trichinosis Situation in the United States. By Benjamin Schwartz, Zoological Division. Pp. 8, mimeographed.

Map. Quarantine for Tick Fever of Cattle. Two colors, 12 by 24 inches. Effective December 15, 1939.

B. A. I. Administrative Notice No. 4. *Requirements Regarding Labeling, Producing, Mixing, and Testing Biological Products.* Effective on and after February 15, 1940. Pp. 3, mimeographed.

U. S. GOVERNMENT PRINTING OFFICE: 1940



